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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,737	04/09/2004	Jochen Schweinbenz	10191/3610	1521
26646 7590 08/01/2007 KENYON & KENYON LLP ONE BROADWAY			EXAMINER	
			PAPE, ZACHARY	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
•			2835	
			MAIL DATE	DELIVERY MODE
			08/01/2007	PAPER.

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/821,737	SCHWEINBENZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	Zachary M. Pape	2835				
The MAILING DATE of this communication app	, ,	ith the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI(36(a). In no event, however, may a swill apply and will expire SIX (6) MONe, cause the application to become Af	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>21 J</u>	<u>une 2007</u> .					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under t	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1 and 5-12 is/are pending in the appl 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 5-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 15 February 2006 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	e: a) \square accepted or b) \square drawing(s) be held in abeyartion is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. Is have been received in A rity documents have been u (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)	· .					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(5) Notice of I	Summary (PTO-413) s)/Mail Date nformal Patent Application tionary Reference.				

DETAILED ACTION

The following detailed action is in response to the correspondence filed 6/21/2007.

Drawings

The objection to the drawings has been withdrawn in view of the amendments to claim 1. Also, see Applicants' remarks thereto.

Specification

The objection to the specification has been withdrawn in view of the withdrawn drawings objection.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1, 5, 7-12 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Clamp et al. (US 6,302,190).

With respect to claim 1, Clamp et al. teaches a housing (Material which houses the electronic components in 20, and the housing 30) for electronic control units (Generally referred to as 20), wherein the housing is situated in a motor vehicle, the

Application/Control Number: 10/821,737

Art Unit: 2835

housing comprising: a bottom section (30) configured to be affixed to a circuit board, and a cooling device (Including 40, 46, and 48) for enabling heat to be dissipated from the housing via a liquid flowing there-through (Column 2, Lines 31-39), wherein the cooling device is integrally formed in the bottom section (As illustrated in Fig 2), and wherein the bottom section is formed as a cooling plate (See Figs 2, 6 and 7), and wherein the cooling device includes at least one one-piece cooling duct integrally formed in the bottom section (See Fig 2).

With respect to claim 5, Clamp et al. further teaches sectional members (52) for conducting heat and reinforcing the bottom section (30) are connected (Mechanically and Thermally) to the outside of the cooling duct (As illustrated in Fig 6).

With respect to claim 7, Clamp et al. further teaches that the cooling duct has a round cross-section (As illustrated in Figs 2 and 7, 46 and 48 both have round cross sections).

With respect to claim 8, Clamp et al. further implies in Fig 9 that an inlet of the cooling duct (94) and an outlet of the cooling duct (102) have threaded connectors leading into and out of the bottom section.

With respect to claim 9, Clamp et al. further teaches that the cooling device includes a plurality of one-piece cooling ducts integrally formed in the bottom section (See Present Office Action Fig 1 below where the first cooling channel, and the second cooling channel, form a plurality of one-piece cooling ducts).

Art Unit: 2835

With respect to claim 10, Clamp et al. further illustrates that the one-piece cooling ducts are connected by at least one separate cross hole (Running along the left side of the bottom as illustrated in Fig 2 and present office action Fig 1 below).

With respect to claims 11 and 12 the limitations of the claim have been given little patentable weight because the claims contain **only** limitations pertaining to the process of making the product. In the present case, the process by which the product is made does not structurally change the final product made. Since the product in the product-by-process claim is the same as or obvious from a product of the prior art (of Clamp et al.), the claim is unpatentable even though the prior product was made by a different process. In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985).

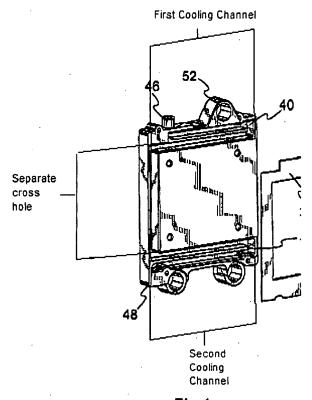


Fig 1

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clamp et al. in view of Watari et al. (US 4,652,970).

With respect to claim 6, Clamp et al. teaches the limitations of claim 1 above but is silent as to a linearly designed cooling duct. Watari et al. teaches the conventionality of having a cooling duct (43) which is linear and passes through the bottom section in a linear manner (As illustrated in Fig 7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Watari et al. with that of Clamp et al. to provide effectively cooling to devices (Column 4, Lines 25-26).

Response to Arguments

3. Applicant's arguments filed 6/21/2007 have been fully considered but they are not persuasive.

With respect to the Applicants' remarks that, "Clamp clearly does not teach or suggest that "the cooling device is integrally formed in the bottom section, and... wherein the cooling device includes at least one on-piece cooling duct integrally formed in the bottom section", the Examiner respectfully disagrees. The Examiner notes the

Application/Control Number: 10/821,737

Art Unit: 2835

attached dictionary reference which recites that a duct is, "an often enclosed passage or channel for conveying a substance" (See the attached dictionary reference from the American Heritage College dictionary 4th edition). The Examiner asserts that the present cooling passage/channel of Clamp et al. meets the criteria/definition for being a duct as claimed. The Applicants' remarks to the cover plate (34) are noted, but have no bearing as to whether 40 of Clamp et al. is a duct.

With respect to the Applicants' remarks to claim 6 that, "Watari also fails to teach that, "the cooling device is integrally formed in the bottom section, and ... wherein the cooling device includes at least one one-piece cooling duct integrally formed in the bottom section", the Examiner respectfully directs Applicant's to the remarks above.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2835

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary M. Pape whose telephone number is 571-272-2201. The examiner can normally be reached on Mon. - Thur. (7:00am - 5:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayprakash Gandhi can be reached at 571-272-3740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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The

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AMERICA'S
FAVORITE
DICTIONARY



FOURTH PRITTON

Dubuffet

dugong

9 A unit of two objects; a pair, [Gk Inc. Sec dwo- in App.

ade 1. Composed of two usu, like or comable 2. Having a double character or pur-Of, relating to, or being a number category persons or things & n Commar I. The dual iffected form of a norm, adjective, pronoun, or voluents or people "Lat dualis" due, two. See du'at by adv

ar Sec Douala.

a hy'am, dvool on 1. The state of being double pln The view that the world consists of or is exisic cutines, such as mind and matter, 3, Psychol. A the mind and body function separately, with 4. Theology a. The view that the world is ruled the forces of good and evil. b. The view that hubasic natures, the physical and the spiritual du'al-is'tic adr - du'al-is'ti-cal-ly adv. advite, dyon in The quality or character of

tichotomy.

a (dootal partpas, dvoot) adv. Designed for or

dubbed, dub•bing, dubs 1. To tap lightly on confer knightly ood. 2. To honor with a new title 3. To give a name to facetiously or playfully; nicktike, cut, or rule (timber, for example) so as to mouth, 5. to dress ta towh, 6. To execute (a golf iples pourly. * n. An awkward person or player, dubben Of dubban, peth. Offr, aduber, tubbed, dub-bing, dubs - n. 1. To thust a tradition. Int. 1 to make a thrust. 2. To bet of 1. The act of dubbing, 2. A drumbeat, [Perlo

r, to his strike. dubbed, dub+bing, dubs 1a. To transfer (reits onto a new recording medium, b. To copy (i. 2. To insert a new soundtrack, esp. a synchrom of the original dialogue, into (a film). 3. Toads film or tape $| \Phi | | a | 1$. The new sounds added by dubbed copy of a tape or record. |Short for DOG-

s.ors A puddle or small pool. [2] o bar'e, dvoo , du ba re't, Comtesse, Marie Jeans 'Madame Du Barry' 1743-93, French courtieran er of Louis XV w bont / A river c. 933 km (580 mi), of SE Noith

anada, Howing through Dubawnt Lake and into

ும் bai doo bi' A city and sheikdom of E Um்வ் con the Persian Gull. Pop. 265,702. An application of a diessing leather.

or diessing leather. (1916.) ob/chek. doop/ (1921-92, Czech tim who became head of a democratically elempton.

on boda', du beda'. Joachim See Joachim di

doo bit to doo n. pl. -ties 1. A feeling of door tils in wavering. See Svis at uncertainty. 2. Amb 11 at. diductas - Lat. dubius, doubtful. See 1005

doe burske David 1892-1982. Russiancader who was president of the international land orkers Union 1932, 66 .

doorbe as, dvoor add. 1. Fraught with uncert idecided 2. Arousing doubt; doubtful 3.01 gractet. - Lat. dubius. See dwo- in App.] -du'bi•ous•ness 11.

e doo'h to bol, dyoo'd adj. Subject to double neertain. Mat. didutabilis dubitare, to doub

bylin. The cap, of Ireland, in the E-central prou'bi+ta+bly adv

doobtne 5m n. Symbol Db An artificially pro-element with atomic number 105 whose man es have mass numbers of 258, 261, 262, and 263 4.2. 1.8. 34, and 30 seconds, respectively. Seconds. After Dubia, Russia, location of the Uniteding

too hors (, W(illiam) E(dward) B(urghard) civil rights leader who cofounded the NAA et (don'be na', dyon') A trademark used by

oo box', bo', du i, René Jules 1901-82. Fre eriologist noted for his research on natural nik (doo'brox nik') Formerly Ra*qu*sa A city of extreme S Creatia on the Adriatics of Serbo Creatian culture and literature. Du-buf-fet (doo-bs-fa', du-bu-fe'), Jean 1901-85. French artist known for his art brut, or "raw ar

BY KHOWN 161 A. DyvOk/) A city of E IA on the Mississippi R. opposite the IL-WI border; settled in 1833. Pop. 57,686.

du-cal (doo'kal, dyoo'-) adj. Of or relating to a duke or duchy. [ME < OFr. < LLat. ducalis < Lat. dux, duc-, leader. See DUKE.]

du/cal·ly adv. duc-at (dik/at) n. 1. Any of various gold coins formerly used in

certain European countries. 2. Slang a. A piece of money. b. An admission ticket. [ME < OFr. < Oltal. ducato < Med.Lat. ducatus, duchy. See DUCHY.]

du-ce (doorcha) n. A leader or commander; a chief. [Ital. < Lat. dux, duc-. See DUKE.

นนา, namp (doo-shan', du), Marcel 1887-1968. French-born artist known for Nude Descending a Staircase (1912).

Du-chenne's muscular dystrophy (doo-shenz') n. The most common form of muscular dystrophy, affecting almost exclusively males, beginning in early childhood and usu, causing death before adulthood. [After Guillaume B.A. Duchenne (1806-75), French physician.]

duch ess (duch'is) n. 1. A noblewoman of the highest rank, esp. in British peerage. 2. A woman holding title to a duchy in her own right. 3. The wife or widow of a duke. 4. Used as the title for such a noblewoman. [ME duchesse < OFr. < Med.Lat. ducissa < Lat. dux, duc-, leader. See DUKE.

duch'y (duch'e) n., pl. -les The territory ruled by a duke or duchess; a dukedom. [ME duchie < OFr. duche < Med.lat. duchtus (lat, dux, duc-, leader. See DUKE.)

duck' (duk) n. 1. Any of various wild or domesticated swimming birds of the family Anatidae, characteristically having a broad flat birds of the ramin and the state of the stat singular verb [ME doke < OE duce, poss. < *ducan, to dive. See

duck? (duk) v. ducked, duck ing, ducks -tr. 1. To lower auck-yauxy-yautkeu, auck-mg, aucks — tr. 1. To lower quickly sp so as to avoid something: ducked his head. 2. To evaluate to age to ack responsibility. 3. To push suddenly under water 4. Games To deliberately play a card that is lower than (an appoint of the control of the co soponients (card).—nnr. 1. 10 tower the nead of body. 2. 10 moves withly espision as to escape being seen. 3. To submerge the head of body briefly in water. 4. To evade a responsibility or obligation of the nused with out. 5. Games To lose a trick by deliberately playing lower-than one's opponent. ◆ n. 1. A quick lower-than one's opponent. ◆ n. 1. A quick lower-than one's opponent. ◆ n. 1. A quick lower-than one's opponent. ♦ n. 1. A quick lower-than one's opponent. ♦ n. 1. A quick lower-than one's opponent. ♦ n. 1. A quick lower-than one's opponent. ing The head of body. 2. A plunge into water. [1912] dieg. possesso Bi dacan; akin to MLGer. and MDu. daken.]

House the second second

Good Cloth (MDuridoec.)
Guick (Gibl.) Gibl. Actin' amphibious military truck used during wind warning. An Actin' amphibious truck used in emergencies, as in capital food victims. [Alteration (influenced by DUCK') of DUCK') of DUCK' of Company of Company

who shared in BigNobel Peace Prize.

chick third third third political characteristics and the state of the s

duct-ing (duk'ting) n. 1. A duct or system of ducts. 2. Material

duct·less gland (dŭkt/lis) n. See endocrine gland.

duct tape n. A waterproof, usu. silver adhesive cloth tape designed esp. for sealing ducts.

duc*tule (dūk/tool') n. A small duct.

duct work (dukt wurk') n. A group or system of ducts.

dud (dud) n. 1. A bomb, shell, or explosive round that fails to det-onate. 2. Informal One that is disappointingly ineffective or unsuccessful. 3. duds Informal a. Clothing. b. Personal belongings. [ME dudde, a cloak.]

dude (dood, dyood) n. 1. Informal An Easterner or city person who vacations on a ranch in the West. 2. Informal A man who is very fancy or sharp in dress and demeanor. 3. Slang a. A man; a fellow. b. dudes Persons of either sex. 4 tr.v. dud-ed, dud-ing, dudes Slang To dress elaborately or flamboyantly. [?]

du•deen (doo-den!) n. A short-stemmed clay pipe. [Ir.Gael. dúidin, dim. of dúd, stump, pipe.]

dude ranch n. A resort patterned after a Western ranch, with outdoor activities such as horseback riding.

dudg-eon (duj/ən) n. A sullen, angry, or indignant humor. [?] dudg-eon2 (duj/an) n. 1. Obsolete A wood used to make knife handles. 2. Archaic a. A dagger with a hilt of this wood. b. The hilt of a dagger. [ME dogeon, poss. < AN.]

Dud•ley (dud•le) A borough of W-central England WNW of Bir-

mingham. Pop. 311,478.

Dudley, Robert. 1st Earl of Leicester. 1532?-88. English courtier, politician, and favorite of Elizabeth I.

Dudley, Thomas 1576-1653. English colonial administrator who served as governor of Massachusetts Bay Colony (1634, 1640, 1645, and 1650).

due (doo, dyoo) adj. 1. Payable immediately or on demand. 2. Owed as a debt; owing. 3. In accord with right, convention, or courtesy; appropriate. 4. Meeting special requirements; sufficient; due cause. 5a. Expected or scheduled, esp. appointed to arrive. b. Expected to give birth. 6a. Anticipated; looked for. b. Expecting or ready for something as part of a normal course or sequence. 7. Capable of being attributed. \bullet n. 1. Something owed or deserved: received your due. 2. dues A charge or fee for membership, as in a club. • adv. 1. Straight; directly: Go due west. 2. Archaic Duly. [ME < OFr. deu, p. part. of devoir, to owe < Lat. debere. See ghabh- in App.]

due bill n. A written acknowledgment of indebtedness to a given party but not payable to order or transferable by endorsement.

du-el (doo/al, dyoo/-) n. 1. A prearranged formal combat be-

tween two persons, usu. over a point of honor. 2. A struggle for domination between two contending persons, groups, or ideas. ϕ ν . -eled, -el·ing, -els or -elled, -el·ing, -els $-i\tau$. 1. To engage (another) in or as if in formal combat. 2. To oppose actively and forcefully. —intr. To engage in or as if in formal combat. ME duelle < Med.Lat. duellum < Lat., war, archaic var. of bel--du'el•er, du'el•ist n.

du-en-de (doo-en/da') n. The ability to attract others by personal magnetism and charm. Sp. dialectal, charm < Sp., ghost < OSpan., owner, proprietor < duen de (casa), lord of (a house): duen, lord (< Lat. dominus; see dem- in App.) + de, of (< Lat. de; see DE-).

due process n. A set course for judicial or other government activities designed to protect the individual's legal rights.

Due•ro (dwěr/o) See Douro.

du•et (doo-et/, dyoo-) n. 1. Music a. A composition for two voices or two instruments. b. The two performers of a duet. 2. A pair. [Ital. duetto, dim. of duo < Lat., two. See dwo- in App.]

due to prep. Because of. Du-fay (doo-fa', du-), Guillaume 1400?-74. Flemish composer particularly known for his Mass compositions

duff1 (duf) n. A stiff flour pudding boiled in a cloth bag or steamed. [Dialectal variation of DOUGH.]

duff² (dūf) n. 1. Decaying leaves and branches covering a forest floor. 2. Fine coal; slack. [?]

< Malay duyong.]

duff² (dūf) n. Slang The buttocks. [?] duf•fel or duf•fle (dūf/əl) n. 1. A blanket fabric made of lowgrade woolen cloth with a nap on both sides. 2. Clothing and other personal gear carried by a camper. [Du., after Duffel, a town of northern Belgiam.]

duff-er (duf/ər) n. 1. Informal a. An incompetent or dull-witted person. b. A casual or mediocre player of a sport, esp. golf. 2. Slang A peddler of cheap merchandise. 3. Slang Something worthless or useless. [?]

duffle bag or duffel bag n. A large cylindrical cloth bag of canvas or duck for carrying personal belongings.

duffle coat or duffel coat n. A warm, usu, hooded coat made of

duffel or a similar material and fastened with toggles.

Du-fy (doo-fe', du-), Raoul 1877–1953. French painter noted for

his brightly colored scenes of racing and the seaside.

dug' (dug) n. An udder, breast, or teat of a female animal. [?]

dug' (dug) v. Past tense and past participle of dig. du-gong (doo'gong', -gong') n. A herbivorous marine mammal (Dugong dugon) of the Indian Ocean having flipperlike forelimbs and a deeply notched tail fin. [NLat. Dugong, genus name, poss.

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dugong

Stress marks: (primary); (secondary) as in lexicon (lčk/si-kon/)

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